

## CLAIMS

1. A system and its corresponding device to measure instantly and permanently the ultraviolet solar radiation, CHARACTERIZED because it has means to detect the UV radiation from the sun and it has means to display the information in a public or private place.
2. The system according to claim 1, CHARACTERIZED because it allows to detect the UV-B solar radiation by means of a filter added to the components mentioned in claim 1 such that the total spectral response corresponds to the erythema action curve.
3. The system according to claim 1, CHARACTERIZED because the means to detect and process the information are solid state electronic elements.
4. The system of claim 1, CHARACTERIZED because the means to display the UV information are public ads, poster advertising, road boards, billboards, etc.
5. A system and its corresponding device to measure instantly and permanently the ultraviolet solar radiation, CHARACTERIZED because it comprises an ultraviolet detector

electrically connected to a electronic processing unit, which converts it to a display signal adequate to show the UV information in a public or private place by means of public ads, poster advertising, road boards, billboards, such that is clearly visible.

6. The device according to claim 5, CHARACTERIZED because the display system is luminous, can be located in a public place, and has advertising.
7. The device according to claim 5, CHARACTERIZED because the detector is provided with a filter such that the total spectral response corresponds to the erythema action curve.
8. The device according to claim 4, CHARACTERIZED because the detector head has analog electronics and an circuit for analog to digital conversion.
9. The device according to claim 8, CHARACTERIZED because the detector head a semiconductor detector with a UV filter (5), a Teflon diffuser (4), an amplifier and a metallic enclosure.
10. The device according to claim 9, CHARACTERIZED because the mentioned amplifier has a standard transimpedance

configuration, preferentially a low noise operational amplifier with low sensitivity to temperature.

11. The device according to claim 4, CHARACTERIZED because the means to display the ultraviolet radiation information mentioned amplifier has a color light set (3), color flags, TV sets, numeric indicators, or others and the color equivalency is the same as recommended and established by the World Health Organization (WHO).

12. The device according to claim 4, CHARACTERIZED because it is located in private place such as schools, private houses, pools, stadiums, or other similar places